Thursday, 5/10/2007 2:36:02 PM Kim Johnston **Process Sheet** : CROSSTUBE EXTRUSION (407 AFT) Customer : CU-DAR001 Dart Helicopters Services **Drawing Name** Job Number : 32308 **Estimate Number** : 10.031 : D6010115 **Part Number** P.O. Number S.O. No. : +11 - D6010 REV A This Issue : 5/10/2007 **Drawing Number** : N/A Prsht Rev. Project Number : NIA : LANDING GEAR **Drawing Revision** First Issue Material Previous Run Each **Due Date** Written By Checked & Approved By 01.08.17 New Issue SM : Est Rev: Comment **Additional Product** Job Number: Description: Seq. #: Machine Or Operation: **PURCHASING** 1.0 PG Comment: PURCHASING Issue P/0: 376 (CZO7/OSLU (S) a) Order as per Dwg D6010 b) Material: 2.250¹x 0.320 wall 7075-T6/T6511 (WW-T-700/7 or QQ-A-225/9 or QQ-A-200/11) seamless aluminum tube c) Minimum ultimate tensile strength = 77 ksi d) Minimum tensile yield strength = 66 ksi e) Tolerance are per ASTM B210 (see details on Dwg D6010) f) Material certification required 2.0 D6010115P Crosstube Material Comment: Qty.: 1.0000 Each(s)/Unit Total: 15.0000 Each(s) Crosstube Material PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Receive & Inspect For Transit Damage Ensure material certification is attached Ensure Material certification comply to Dwg

Dart Ae	rospace	Ltd								
W/O:				WC	ORK ORDER CHANG	SES		-		
DATE	STEP		PRO	PROCEDURE CHANGE B					Approval Chief Eng / Prod Mgr	Approva QC Inspecto
Part No	:		PAR #:	Fault Cate	gory:					
								d:	Date: _	
NCR:			\	WORK ORDI	ER NON-CONFORM	ANCE (NC	R)			
	STEP	STEP	Description of NC	Corrective Action Section B			Verific	ration	Approval	Approval
DATE			Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat	& Secti	on C	Chief Eng	QC Inspect
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NOTE: Date & initial all entries

Thursday, 5/10/2007 2:36:02 PM Date: User: Kim Johnston **Process Sheet** Drawing Name: CROSSTUBE EXTRUSION (407 AFT) Customer: CU-DAR001 Dart Helicopters Services Part Number: D6010115 Job Number: 32308 Job Number: Seq. #: Machine Or Operation: Description: HAND FINISHING1 HAND FINISHING RESOURCE #1 5.0 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 PACKAGING RESOURCE # 6.0 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: LNC FINAL INSPECTION/W/O RELEASE QC21 7.0 Comment: FINAL I ISPECTION/W/O RELEASE Job Completion

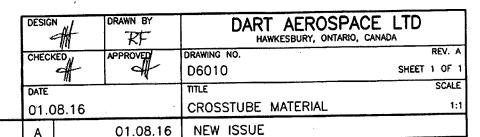
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Page 2

Approval Chief Eng / Prod Mgr	Approval QC Inspector
Date: _	
_	Approval QC Inspector
Chief Eng	
	Chief Eng / Prod Mgr Date: Date:

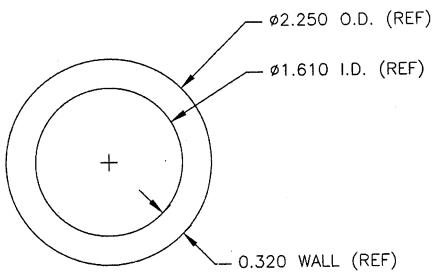
NOTE: Date & initial all entries





SPECIFICATION CONTROL DRAWING





NOTES

1) D6010-XXX CROSSTUBE **LENGTH**

WHERE XXX IS LENGTH IN INCHES EG. 115" LONG TUBE: D6010-115

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER

2) MATERIAL: 2.250 OD \times 0.320 WALL 7075-T6/T6511 (WW-T-700/7 OR QQ-A-225/9 OR QQ-A-200/11) SEAMLESS ALUMINUM TUBE.

MINIMUM ULTIMATE TENSILE STRENGTH = 77 ksi MINIMUM YIELD TENSILE STRENGTH = 66 ksi

3) TOLERANCES ARE PER ASTM B210 AS FOLLOWS:

O.D.: \pm 0.006 MEAN (\pm 0.012 INCLUDING OVALITY)

WALL: ±0.015 MEAN (±0.032 INCLUDING ECCENTRICITY)

LENGTH: XXX +0.125/-0.000 STRAIGHTNESS: 0.010" DEVIATION / 12" LENGTH

4) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

5) CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

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Abnahmeprüfzeugnis 3.1 - EN 10204:2004

Inspection Certificate 3.1 - EN 10204:2004 | Certificat de Reception 3.1- EN 10204:2004

Kunde:

Dart Aerospace Ltd.

Zeugnisnummer: Cert No.: / No. du certificat: 1011/07

Client:

1270 Aberdeen Street

Bestellnummer:

PO00003761

K6A1K7

Hawkesbury, ON

Canada

Order No. / No. de commande

Produkt:

Rohre nahtlos gepresst und gezogen

Auftrag:

25006/3

Product / Produit:

Tubes seamless extruded and draw Tubes file sur aiguille et etire Reference/Notre Reference:

Spezifikation:

AMS - QQ - A - 200/11E; Spezifikation Dart Aerospace

Specification:

Werksloff:

EN AW-7075

Zustand:

T 6511

Alloy/Alliage:

3.4365

Temper/État

Abmessung

2,250 INCH

x 1,610 INCH x 0,320 INCH x 115,000 INCH

Size / Dimension

D6010-115 2.250 x 0.320 x 115

Kennzeichnung

ALUnna - Cert No. 1011/07 - 70<u>75 - T 6</u>511 - Cast No. 01706073 - AMS QQA 200/11E - 2.250" OD X 0.320" Wall -

Heat No. 947/09 - Lot 25006/3-1 PO. 00003761 Marking/l1arquage:

Lieferung:

Stück/pcs. 26

kg/kgs

Delivered Material / Matérial délivre:

266,00

1. Chemische Analyse

Chemical Analysis / analyse chimique

2, 0,,0,,,00													
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Zr	Bi	Sn	Ni
Charge/ min.			1,2		2,1	0,18	5,1					-	
Cast No. max.	0,40	0,50	2,0	0,30	2,9	0,28	6,1	0,20					
01706073	0,12	0,28	1,48	0,04	2,5	0,18	5,95	0,03	0	0,01			

Elemente ohne Angabe < 0,01 % / Elements without indication < 0,01 %

2 Mechanische Figenschaften

Mechanical Properties / Valeurs Mécaniques

		gensenare				
Anforderungen Specification	Rm N/mm²	Rp0,2 N/mm²	A5 %	A 50 %	НВ	Heat No.
min: max:	531	455	,			
1	571	523	10,0	0,8		947/09 - 26 pcs.
į						

RMS outside 25 - max. 22,5 µ"

Ergebnis der Prüfungen:

Es wird bestätigt, daß die Lieferung geprüft wurde und den Vereinbarungen bei der

Bestellannahme entspricht

We confirm that the delivery has been tested and applies to the agreements made on receipt of the order

Test results: Resultats:

Zertifiziert nach DIN EN ISO 9001:2000, gültig bis 2009-03-27

Nous confirmons que la livraison a été controlée et correspond avec les conventions faites à la réception de la commande



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